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Plug-in safety coupling for pressure pipes, comprising a pivoted blocking member

~~Abstract~~ABSTRACT

A plug-in safety coupling for pressure pipes ~~(10; 12)~~ consists of a coupler box ~~(1)~~ with a blocking member ~~(4)~~ pivotally mounted therein. The latter has a diametrical through bore ~~(5)~~ in which a plug ~~(11)~~ can be inserted, in a depressurised state, at an acute to a right angle to the conducting position. The blocking member ~~(4)~~ can be brought into the conducting position by pivoting the plug ~~(11)~~. A cupped locking sleeve ~~(2)~~ having a hemispherical front end ~~(7)~~ is placed over the coupler box ~~(1)~~ with the pivoting member ~~(4)~~. This hemispherical front end ~~(7)~~ comprises a spherically extending oblong hole ~~(8)~~ that extends along a great circle on the hemispherical end ~~(7)~~ from the centre thereof. The locking sleeve ~~(2)~~ is rotatably mounted on the coupler box ~~(1)~~ and is biased by a spring to such an extent that its oblong hole ~~(8)~~ extends with an offset by 90° relative to the pivoting plane of the blocking member ~~(4)~~ of the plug ~~(11)~~. Only when the locking sleeve ~~(2)~~ is pivoted, a plug ~~(11)~~ can be inserted. Once the plug is pivoted into the conducting position, the locking sleeve ~~(2)~~, by the force of the spring, is pivoted by 90° and secures the plug ~~(11)~~ from pivoting back.